

ABSTRACT OF THE DISCLOSURE

Fragment data is generated with respect to a certain data aggregate that is one of a plurality of data aggregates using a coded matrix. The fragment data is capable of restoring the certain data aggregate based on the coded matrix when the fragment data is collected to a required count. The generated fragment data is provided with an identification code associated with the certain data aggregate restored by the fragment data. The fragment data having the identification code is transmitted to a transmission channel. Further, the same transmission channel can be used to transmit the multiple pieces of the fragment data corresponding to the multiple data aggregates. When a receiving party is previously notified of the identification code, it can receive the fragment data by distinguishing which fragment data should restore which data aggregate.